Jennifer S. Crooks Monastra

University of South Carolina, Wardlaw College, 025, Columbia, SC, 29208 803-814-7245, crooksj@mailbox.sc.edu

EDUCATION

	2021 Ph.D.	in Teaching and Learning, University of South Carolina (Columbia, SC)
		Focus Area: Undergraduate Mathematics Education
		Dissertation: Planning and Teaching for Student Learning in Mathematics: How
		Graduate Student Instructors Develop and Implement Instruction
	2001 M.M.	in Mathematics, University of South Carolina (Columbia, SC)
		n Mathematics, Malone College (Canton, OH)
PROFESSIONAL EXPERIENCE		
	2021-Present	Research Associate at the Research, Evaluation and Measurement Center
	2016-2021	Research Assistant at the Research, Evaluation and Measurement Center
		 Assist with data collection, analysis and report writing for grant projects
	2005-Present	Mathematics Instructor at University of South Carolina
		 Teach and coordinate Mathematics courses for the Opportunity Scholars Program
		Support first generation college students
	2010-2016	McNair GRE Tutor for University of South Carolina TRIO
		 Prepare students for Quantitative Reasoning section of Graduate Records
	2012	Exam University Symposison at University of South Carolina
	2012	University Supervisor at University of South Carolina
	2011	• Supervise student teachers during internships
	2011	AP Calculus Exam Reader for ETS
	2005	Adjunct Mathematics Instructor at Midland's Technical College
	2001-2005	High School Mathematics Teacher at White Knoll High School
		• Taught AP Calculus AB and BC, Calculus CP, Precalculus CP, Math Tech
		I & II, SAT Prep
		 Coached math team
	2001	Upward Bound Instructor for University of South Carolina TRIO
	1999-2001	Graduate Teaching Assistant in Mathematics at University of South Carolina

UNIVERSITY TEACHING EXPERIENCE

- Basic College Mathematics/College Algebra (MATH 111)
- Precalculus (MATH 115)
- Calculus for Business and Social Sciences (MATH 122)
- Calculus I (MATH 141)
- Calculus II (MATH 142)
- Workshop for Calculus II (MATH 152)
- Finite Mathematics (MATH 170)
- Math Concepts for Elementary Teachers I (MATH 221)

- Math Concepts for Elementary Teachers II (MATH 222)
- Conceptual History of Mathematics (MATH 401)
- An Inductive Approach to Geometry (Cotaught MATH 602)

CONFERENCE PRESENTATIONS

- Lotter, C., & Crooks-Monastra, J. (2023, February). Challenges and Supports for Secondary Science and Mathematics Teacher Retention. In A. Starrett (Chair), *South Carolina Teacher Retention*. Symposium conducted at the annual meeting of the South Carolina Educators for the Practical Use of Research, Columbia, SC.
- **Crooks-Monastra, J.**, & Yee, S.P. (2023, February). What is so difficult about teaching precalculus for the first time? Graduate student's perspectives on learning to teach. Research in Undergraduate Mathematics Education (RUME), Omaha, NE.
- Crooks-Monastra, J., Fan, X., D'Amico, L., Costner, K., & Adgerson, A. (2022, March). STEM Teachers' Experiences with COVID: How it Shaped their Teaching and Career Intentions. South Carolina Educators for the Practical Use of Research, Virtual.
- **Monastra, J.C.**, & Yee, S. (2022, February). *Goals for Student Learning among Mathematics Graduate Student Instructors (MGSIs)*. Research in Undergraduate Mathematics Education (RUME), Boston, MA.
- Lotter, C., Monastra, J.C., Irdam, G., & Yow, J. (2021, April). *Challenges and Supports for Secondary Science and Mathematics Teacher Retention*. National Association for Research in Science Teaching (NARST), Virtual.
- Monastra, J.C., & Yee, S.P. (2021, February). *Mathematics Graduate Student Instructors (MGSIs) Goals for Student Learning*. Research Council on Mathematics Learning (RCML) Conference, Virtual.
- **Monastra, J.C**. (2019, October). *Mathematics Graduate Student Instructors Planning and Teaching for Student Learning*. Mid-Atlantic Research in Undergraduate Mathematics Education (MA-RUME) Conference, Harrisonburg, VA.
- Panelist. (2017, December). *Teaching First Generation College Students*, Center for Teaching Excellence, University of South Carolina, Columbia, SC.
- **Monastra, J.C.**, & Yee, S.P. (2017, March). Math is not a Race: A Students' Journey from Basic Algebra to Doctoral Work. Research Council on Mathematics Learning (RCML) Conference, Ft. Worth, TX.
- **Monastra, J.C.**, & Yee, S.P. (2016, November). Math is not a Race: From High School Dropout to Mathematics Doctoral Student. South Carolina Council of Teachers of Mathematics (SCCTM) Conference, Greenville, SC.
- **Monastra, J.C.**, & Geddings, D. (2016, October). Becoming a Reflective Practitioner through Co-Teaching. North Carolina Council of Teachers of Mathematics (NCCTM) Conference, Greensboro, NC.

PUBLICATIONS

- **Monastra, J.C.**, & Yee, S.P. (2022). Goals for Student Learning among Mathematics Graduate Student Instructors (MGSIs). In Karunakaran, S.S., & Higgins, A. (Eds.), Proceedings of the 24th Annual Conference on Research in Undergraduate Mathematics Education (RUME, p. 143-151), Boston, MA. http://sigmaa.maa.org/rume/Site/Proceedings.html
- Monastra, J.C., & Yee, S.P. (2017). Math is Not a Race: One Students' Journey from Basic

- Algebra to Doctoral Classes. In T. Olson & L. Venenciano (Eds.), *Proceedings of 44th Annual Research Council on Mathematics Learning* (RCML,pp.65-72), Fort Worth, TX: Research Council on Mathematics Learning (RCML).
- Monastra, J.C. (2014). The Pen Pal Journal Project. *The MathMate*, 36(1), 9-14.

TECHNICAL AND EVALUATION REPORTS

- Monastra, J.C., D'Amico, L.K., & Leverage, L. (2022, March). *University of South Carolina Science and Mathematics Teachers Initiative: Phase 2 Year 5 evaluation report*. Prepared for University of South Carolina and National Science Foundation.
- Monastra, J.C., D'Amico, L.K., & Fan, X. (2021, March). *University of South Carolina Science and Mathematics Teachers Initiative: Phase 2 Year 4 evaluation report.* Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K., **Monastra, J.C.**, Zhang, X., & Pompey, K. (2020, July). *Developing master teachers: University of South Carolina Science and Mathematics Teacher Leaders Program (SMTL) Year 6 evaluation report.* Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K., **Monastra, J.C.**, Fan, X., & Zhang, X. (2020, March). *University of South Carolina Science and Mathematics Teachers Initiative: Phase 2 Year 3 evaluation report.* Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K., **Monastra, J.C.**, & Fan, X. (2019, July). *Developing master teachers: University of South Carolina Science and Mathematics Teacher Leaders Program (SMTL) Year 5 evaluation report*. Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K., **Monastra, J.C.**, & Fan, X. (2019, March). *University of South Carolina Science and Mathematics Teachers Initiative: Phase 2 Year 2 evaluation report*. Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K. & Monastra, J.C. (2018, July). Developing master teachers: University of South Carolina Science and Mathematics Teacher Leaders Program (SMTL) Year 4 evaluation report. Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K., & Monastra, J.C. (2018, March). *University of South Carolina Science* and Mathematics Teachers Initiative: Phase 2 Year 1 evaluation report. Prepared for University of South Carolina and National Science Foundation.
- D'Amico, L.K. & Monastra, J.C. (2017, July). Developing master teachers: University of South Carolina Science and Mathematics Teacher Leaders Program (SMTL) Year 3 evaluation report. Prepared for University of South Carolina and National Science Foundation.

GRANTS

- Monastra, J.C. (2021). Planning and Teaching for Student Learning in Mathematics: How Graduate Student Instructors Develop and Implement Instruction. University of South Carolina SPARC Graduate Research Grant: \$4919.03
- Monastra, J.C. (2019). Decisions, Decisions, How Do I Teach? An Exploratory Qualitative Case Study of Mathematics Graduate Student Instructors Thinking. University of South Carolina SPARC Graduate Research Grant (unfunded)

EVALUATION EXPERIENCE

Current Projects

- Institute in Measuring Methodology in Rural STEM Education for Postdoctoral Research Fellowships (2022 present)
- Science and Mathematics Teachers Initiative: Phase 3 (2022 present)*
- Teen Science Ambassadors Program (2021 present)*
- Teacher Quality Partnership (2019 present)

Former Projects

- Science and Mathematics Teachers Initiative: Phase 2 (2017 2022)*
- Developing Master Teachers through the South Carolina Science and Mathematics Teacher Leaders Program (2016 – 2020)
- Science and Mathematics Teachers Initiative: Phase 1 (2016)

SERVICE

2022-present	Committee member: REM Center Graduate Student Professional Development
2022-present	Course coordinator for Math 170
2022	Dissertation committee member
	Annabelle Merg, Curriculum and Instruction, University of South Carolina
	Chair: Leigh D'Amico (Curriculum Studies)
	Defended dissertation on March 15, 2022
2022	Committee member: planning Mathematics Department Instructor Orientation
2022	Grant reviewer for National Science Foundation (NSF)
2022	Conference proposal reviewer for the Conference of the Association of
	Mathematics Teacher Educators (AMTE)
2021	Proceedings reviewer for Research Council on Mathematics Learning (RCML)
2020-present	Proceedings reviewer for Research in Undergraduate Mathematics Education
	(RUME)
2020-present	Co-chair faculty development team for the Opportunity Scholars Program
2020	Veteran TA panelist for Graduate Student Orientation
2020	Faculty caller for Continuing Student Outreach Initiative for College of Arts and
	Science
2018	Facilitate faculty orientation Session First-Generation College Students: Teaching
	Strategies for Underrepresented Learners
2016-present	Co-lead faculty session for Opportunity Scholars Program Freshman Orientation
2013-2019	Registration volunteer for AP Calculus Day
2013-2019	Assist with High School Math Contest
2011, 2013	Textbook Selection Committee Member for Math 111 and Math 122
2006-2013	Mathematics Education Committee Member

LOCAL PRESENTATIONS

Opportunity Scholars Program 50th Anniversary Reception, University of South Carolina, October 28, 2022

Advisory Board presentation for Teen Science Ambassador Program, virtual, May 24, 2022 Opportunity Scholars Program Senior Night, Virtual, March 18, 2021

^{*}Indicates projects on which I served/serve as project lead or co-lead

RESEARCH INTERESTS

- Program Evaluation
- Undergraduate Mathematics Education
- Active Learning
- Teacher Goals, Beliefs, Attitudes and Dispositions
- Graduate Student Instructor Preparation
- First-generation College Students